Shipping Transaction Processing IMACS Version 5.2

San Diego, CA
Configuration
Management Team
TRW
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Asset Visibility in IMACS

Reception of Legacy Files

Transaction Processing

On - Line Processing

Reception of Legacy Files

LEGACY	SERVICE	SITES
D035K	Air Force	Hill AFB UT
		Kelly AFB TX (Closed)
		McClellan AFB CA (Closed)
		Tinker AFB OK
		Warner-Robins AFB GA
UICP	Navy	NAVICP - P
		NAVICP - M
SDS	Army	Corpus Chrsiti AD (CCAD) TX
		Letterkenny AD (LEAD) PA
		Anniston AD (ANAD) AL
		Red River AD (RRAD) TX
		Tobyhanna AD (TYAD) PA
CCSS	Army	Rock Island (ACALA) IL
		St. Louis (ATCOM) - Closed
		Ft. Monmouth (CECOM) NJ
		Huntsville (AMCOM) AL
		Detroit (TACOM) MI
ILSMIS	Navy	Crane (NAVSURFWARC) IN
		Fallbrook (NOC PACDIV) CA

Transaction Processing in IMACS

- Process all new transactions for the day
- Filter the Legacy Transactions
  - Duplication Check
  - Niin Filter
  - Service Indicator Filter

Transaction Processing in IMACS

- Series of Edit Checks
  - Numerics and Dates
  - NSN
  - DODAACs & Routing Identifier Codes (RICs)
- Logical Edits
  - DMISA Line Items
  - Associated Special Shipping Instructions

Transaction Processing in IMACS

- Load transactions to IMACS as unprocessed (Mismatch code of “IB”)

Transaction Processing in IMACS

- Transaction Batch Processing
  - Filter the Transaction Mismatch table and retrieve all unprocessed (Mismatch Type of “IB”) transactions
  - Edit Check
  - Logical Check
  - Post if both types of checks are validated

Transaction Processing
EDIT CHECKS

- To RIC (TR)
- NSN (NN)
  - FSC
  - NIIN
- Unit of Issue (UI)
- Transaction Quantity (BQ)

Transaction Processing
EDIT CHECKS

- Document Number (SD)
  - Source DODAAC
  - Julian Date
  - Serial Number
- Supplementary DODAAC (SP)
- Required Delivery Date (DT)
  - Material Redistribution (A2)
  - Material Release Order - MRO - (A5)

Transaction Processing
EDIT CHECKS

- Unit Price (UP) - Material Release Order
- Transaction Date (DT)
  - Material Redistribution (A2)
  - Material Shipment Status (AR)
  - Material Receipt (D6)

Transaction Processing
EDIT CHECKS

- Material Redistribution, Release Order, Receipt
  - From RIC (FR)
  - Ownership Code (OC)
  - Condition Code (CC)

Transaction Processing
LOGICAL CHECKS

- Document Number, Suffix, and NSN (DN)
- Material Shipment Status (AR0)
  - Material Release Order Search
  - Ownership Code (OC)
  - Condition Code (CC)

Transaction Processing ***LOGICAL CHECKS***

- Determine the Direction of Transaction
  - Evaluate Supplementary Address
    - Bonded Storage
      - Defaults to Army if Corpus Christi
      - Defaults to Air Force if Oklahoma City
  - IMACS Obtains the Service Indicator of Supplementary Address and ICP (From Routing Identifier)

Transaction Processing ***LOGICAL CHECKS***

- Determine the Direction of Transaction
  - To Repair Facility when comparison of Supp Address and ICP service indicators are different (Part I/”I” – Into Maintenance)
  - To Principal when comparison of Supp Address and ICP service indicators are the same (Part II/”O” – Out from Maintenance)

Transaction Processing ***LOGICAL CHECKS***

- Determine the Direction of Transaction
  - Special Conditions
    - To Principal when serviceable asset is shipping to DLA (Part II/”O” – Out from maintenance)
    - Receipts require an additional check because of some unusual shipping details.

FB2284	SW3210	N35	FGB	5	UNSVC
FB2379	SW3210	N35	FGB	5	UNSVC
FB5000	SW3210	N35	FGB	5	UNSVC

Transaction Processing ***LOGICAL CHECKS***

- Determine Transaction Entry Date (TED) FY
  - October 1 through December 31 of any given year: TED FY = TED Year + 1year
  - January 1 through September 30 of any give year: TED FY = TED Year

Transaction Processing
LOGICAL CHECKS

- Line Item.
  - Transaction NSN
  - Transaction Ownership Code
  - Major Assets – Agent/Part II Shipments
    - Search for potential candidates in DMISAs beginning 3 years back from TED FY
    - Check Assets Repaired
    - Check Assets Shipped

Transaction Processing
LOGICAL CHECKS

- Line Item (cont'd)
  - Major/Minor Assets (Principal/Part I Shipments)
    - Search for potential candidates in DMISA's of the TED FY
  - DMISA Status

Transaction Processing
LOGICAL CHECKS

- Special Shipping Instructions
  - Based on the Direction (“I” or “O”) the Asset is traveling
  - Line Item Specific Instructions
  - Tab Default Instructions
  - “Best Fit” Special Instruction

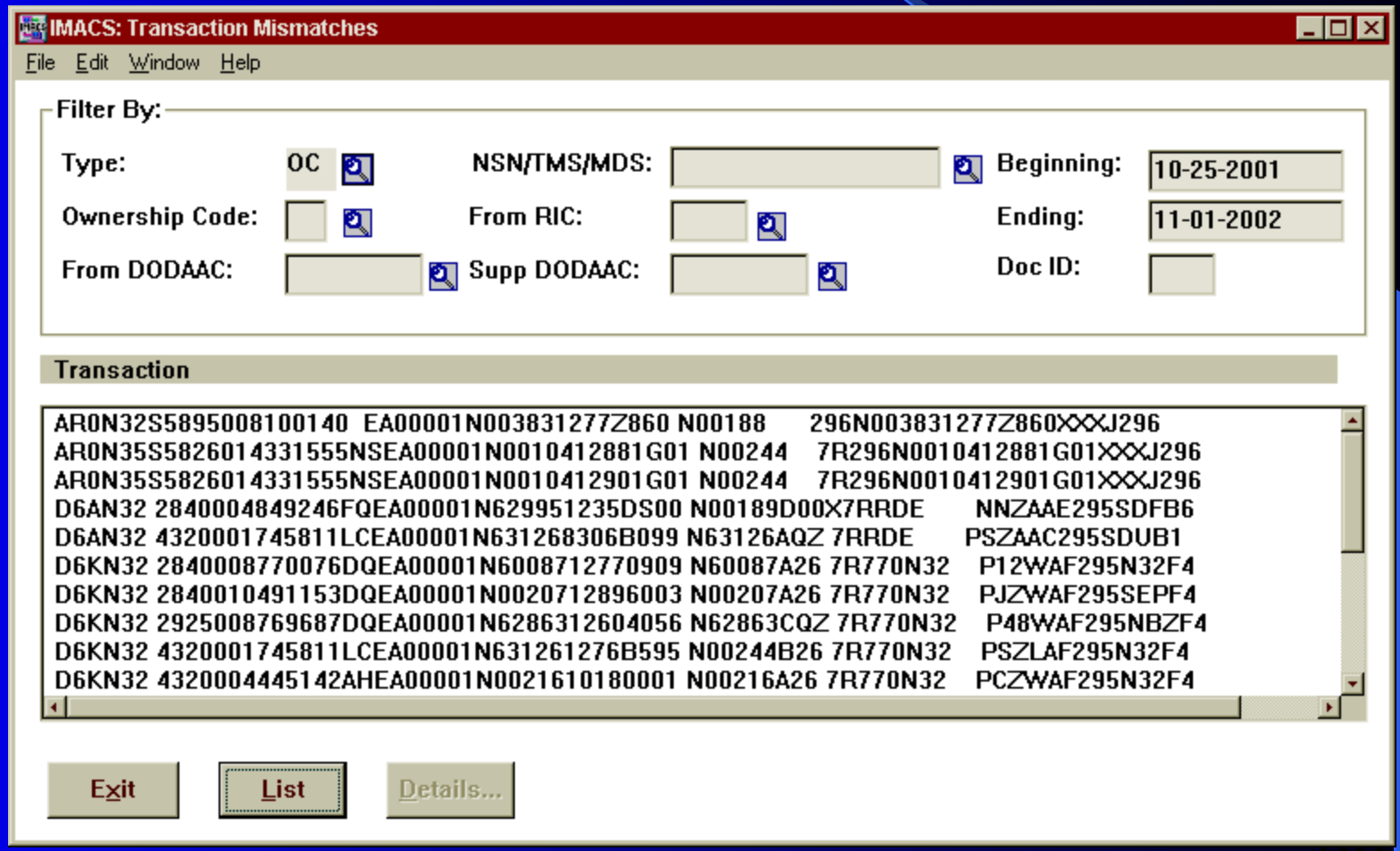
Transaction Processing ***LOGICAL CHECKS***

- Search Results
  - Line Item **not** found
    - NL" Mismatch
  - Line Item found **without** Special Instructions
    - "MY" Mismatch – NSN in Multiple DMISAs/FYs
    - "ML" Mismatch – NSN Schedule on Multiple Line Items
    - "NL" Mismatch

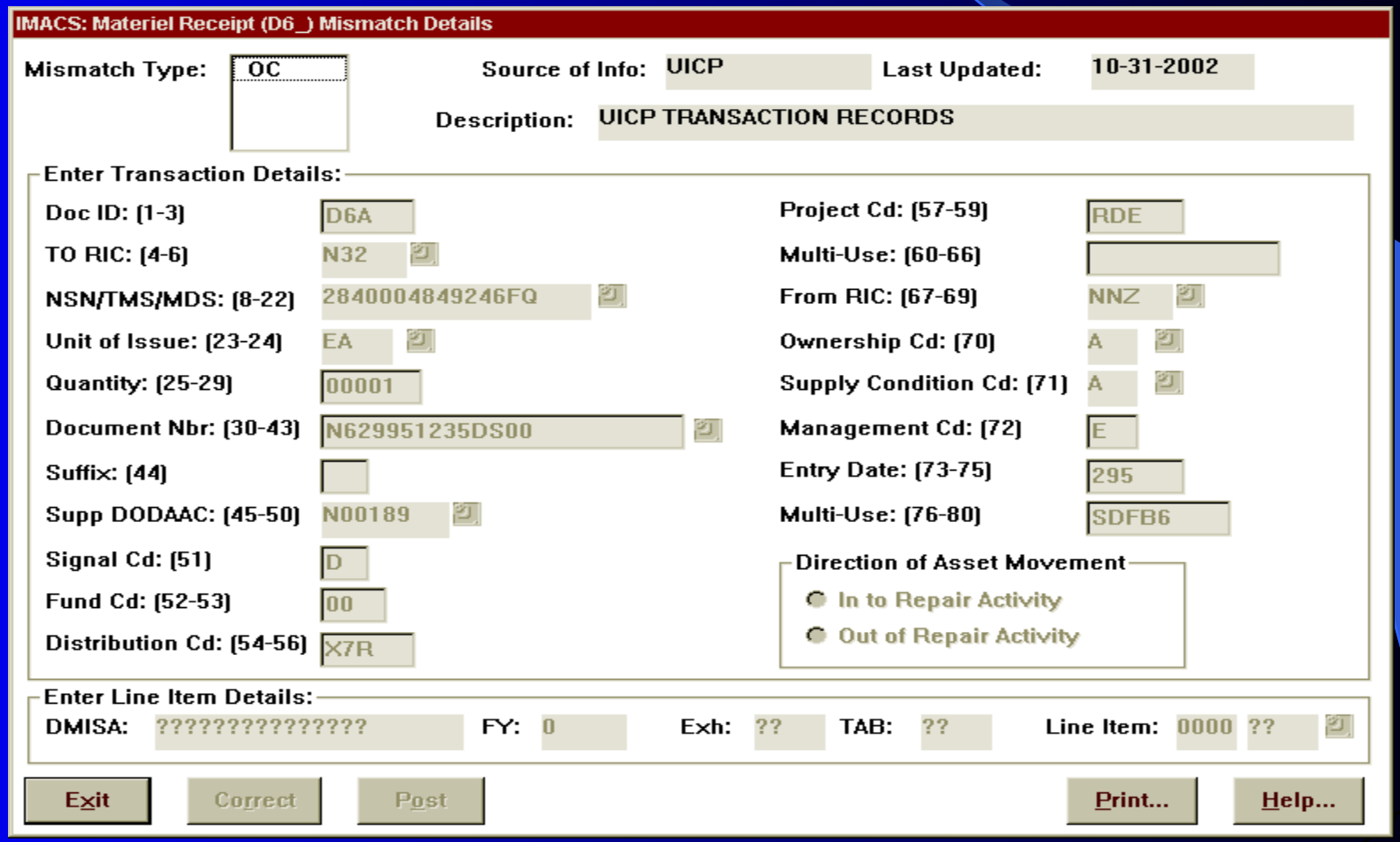
Transaction Processing LOGICAL CHECKS

- Search Results (cont'd)
  - Line Item Found
    - Associates Transaction & Line Item
    - Updates Transaction

Transaction Processing



Transaction Processing



Transaction Processing ***Generate Special Shipping Instructions***

- Nightly Processing Only
- Line Item candidate without a Special Instruction
- Users correcting Mismatches continue creating Special Instructions On-Line

Transaction Processing ***Generate Special Shipping Instructions***

- Business Rule Change
  - SPECIAL SHIPPING INSTRUCTIONS MUST HAVE A:
    - **SOURCE DODAAC**
    - **SUPPLEMENTARY DODAAC**

Transaction Processing ***Generate Special Shipping Instructions***

- Determine the Direction the Asset is traveling
- Generate a Global Shipping Instruction
  - Only if necessary
  - Currently exist:
    - In IMACS?
    - Used in an existing Special Instruction?
    - Compare DMISA Numbers

Transaction Processing ***Generate Special Shipping Instructions***

- Generate a Global Shipping Instruction
  - An Existing Global Instruction and Not Used in any Special Instruction
    - Update Block AA with DMISA Number
    - Update Mark For with ICP Routing Identifier
  - An Existing Global Instruction used within the same DMISA, but a different Tab
    - No Updating of the Global Instruction Required

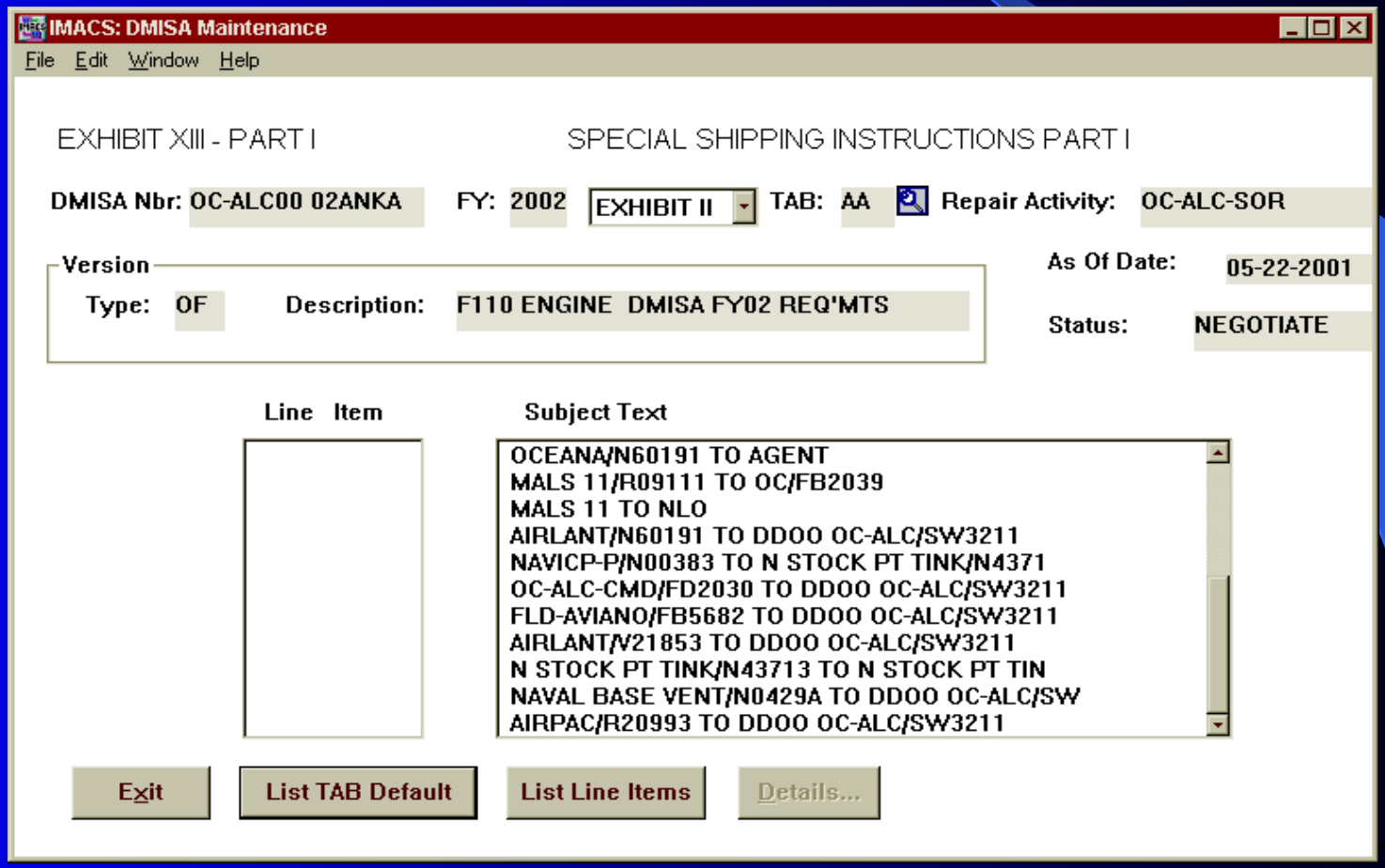
Transaction Processing ***Generate Special Shipping Instructions***

- Generate a Global Shipping Instruction
  - Global Instruction does not Exist
    - Create a Global Shipping Instruction utilizing information in transaction
      - Document Number DoDaac (Source Dodaac)
      - Supplementary Dodaac
      - From Routing Identifier Code (ICP)
      - To Routing Identifier Code (From RIC)
      - Owenership Code (Owner)
      - Block AA (DMISA Number)
      - Mark For (ICP)

Transaction Processing ***Generate Special Shipping Instructions***

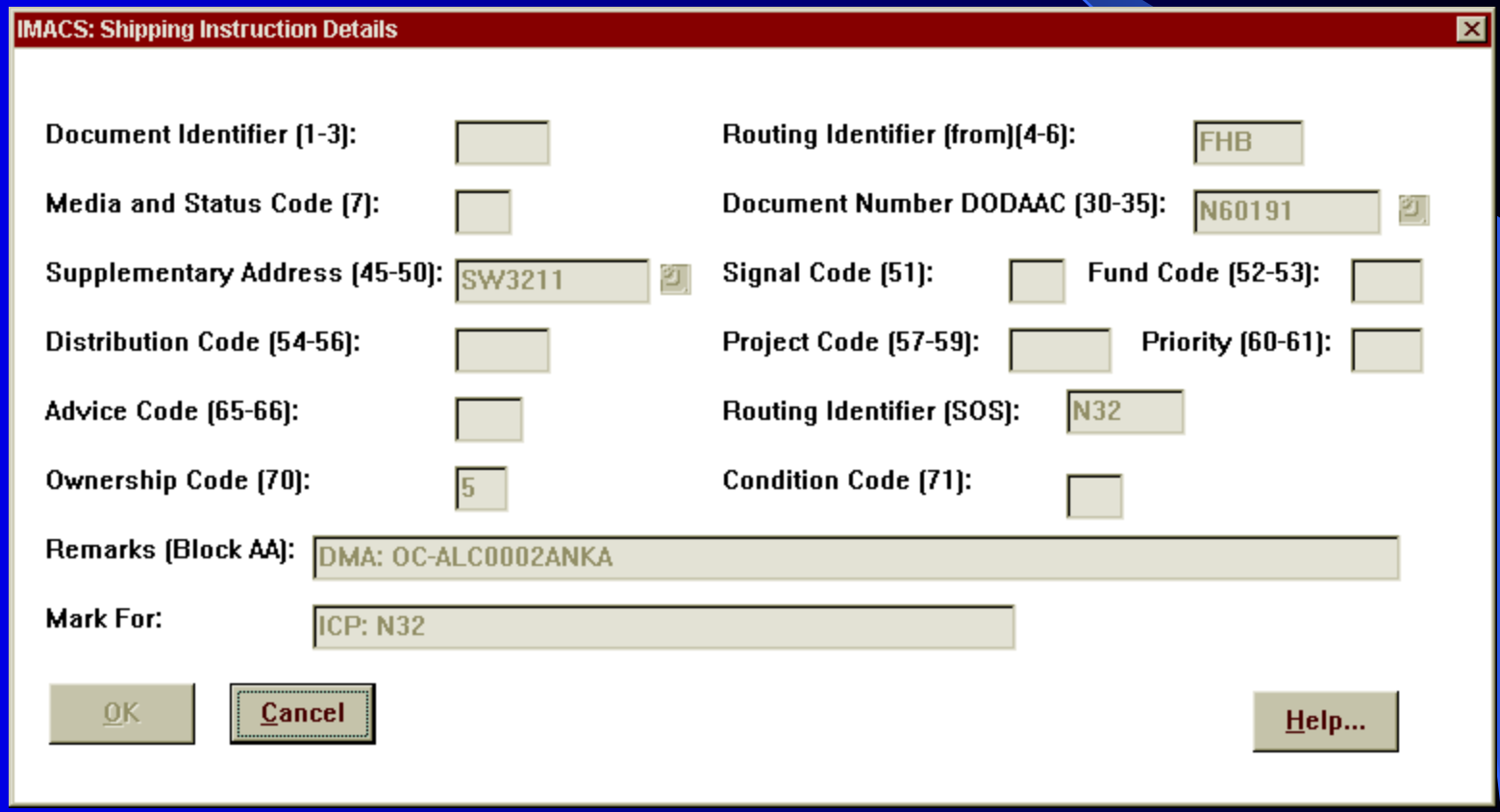
- IMACS now Generates the Tab Default Special Instruction
  - Subject Text
    - Organization/Source Dodaac TO Organization/Supp Dodaac
  - Comment
    - IMACS GENERATED SPECIAL SHIPPING INSTRUCTION!

Transaction Processing
Generate Special Shipping Instructions



Transaction Processing
Generate Special Shipping Instructions

Transaction Processing
Generate Special Shipping Instructions



Transaction Processing ***METRICS***

Mismatch Type	Before
BQ	795
CC	7551
DN	423
DT	31
FR	361
ML	31
MY	47250
NL	3539
NN	153
OC	52618
SD	3696
SP	3460
TR	11283

Transaction Processing ***METRICS*** *(Test Env.)*

Mismatch Type	Before	After	Change
BQ	795	795	NC
CC	7551	7551	NC
DN	423	424	0.24%
DT	31	31	NC
FR	361	361	NC
ML	31	369	1190%
MY	47250	37254	-21.16%
NL	3539	3588	1.38%
NN	153	153	NC
OC	52618	52618	NC
SD	3696	3694	-0.05%
SP	3460	3460	NC
TR	11283	1487	-86.82%

Transaction Processing ***METRICS***

Mismatch Type	Before	After	Change
Posted Documents	19236	27760	44.31%
Posted Transactions	27173	36094	32.83%
Global Instructions	1429	2019	41.29%
Special Instructions	116185	117006	0.71%

Transaction Processing ***Generate Special Shipping Instructions***

- Deletes “NL” Mismatch Type Code
- Associates the Line Item with Transaction

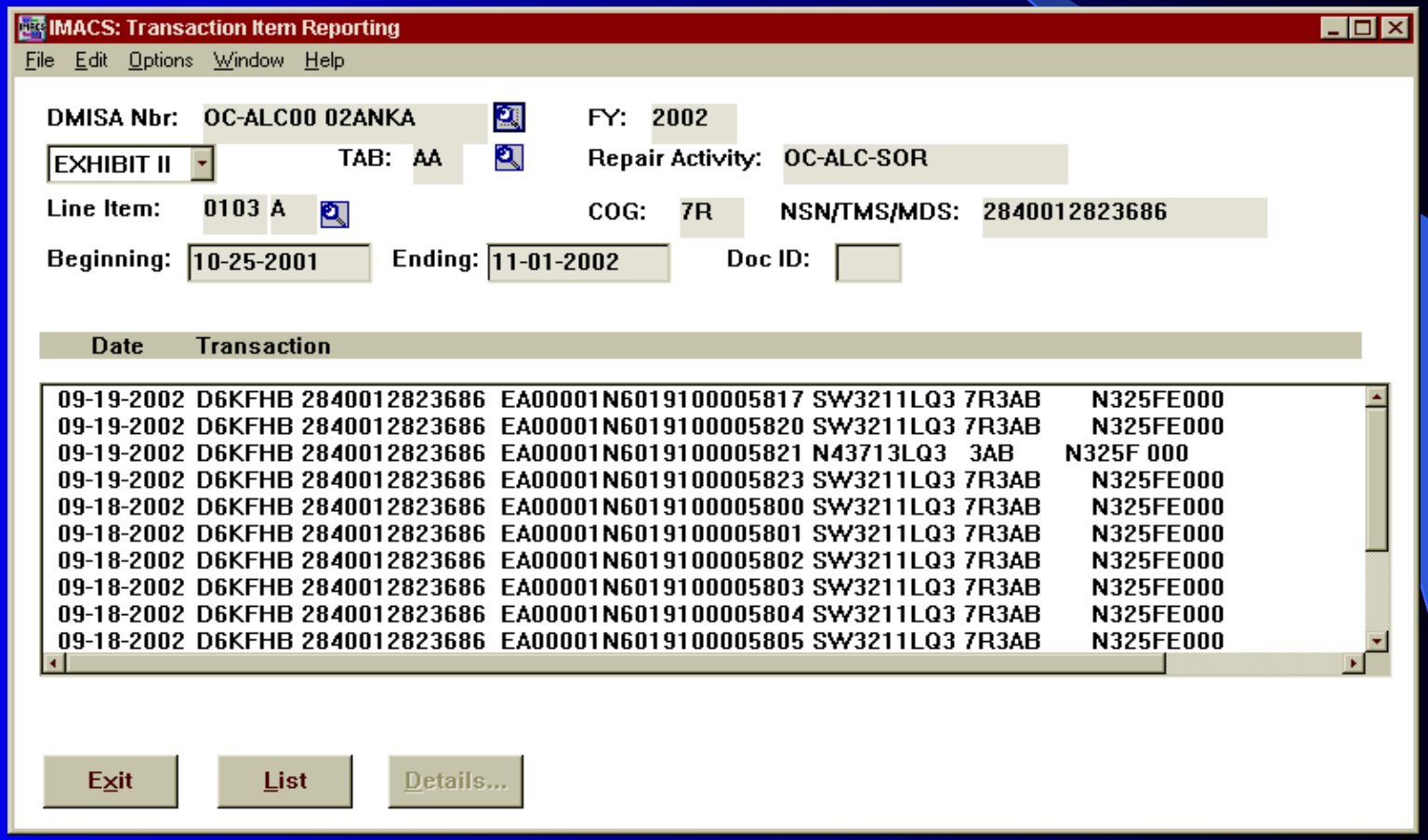
Transaction Processing POSTING

- DMISA Line Item
- Special Shipping Instruction
- Transaction
- Source and Supplemental DODAACs
- Ownership Code
- To/From RICs
- NSN
- Condition Code
- Organization
- Legacy System

IMACS ON-LINE PROCESSING

- Transaction available for on-line processing after initial nightly run
- Edit Checks
- Logic Checks
- Posts

Transaction Processing
Generate Special Shipping Instructions



Transaction Processing
Generate Special Shipping Instructions